Dongen Zhou

Department of Electrical and Computer Engineering
Drexel University, Bossone 405, 3141 Chestnut Street
Philadelphia, PA 19104-2816

Phone: 215-939-6807
E-mail: dz78@drexel.edu
Url: vlsi.ece.drexel.edu

EDUCATION

- **M.S., Computer Engineering**, GPA: 3.2, (expected graduation 2018).
  Drexel University, Philadelphia, PA
- **B.S., Computer Engineering**, GPA: 3.1, 2016.
  Drexel University, Philadelphia, PA
- **B.S., Electrical Engineering**, GPA: 3.1, 2016.
  Drexel University, Philadelphia, PA
- **Study Abroad**, 2014
  Technical University of Denmark (DTU), Lyngby, Denmark

EXPERIENCE

- **Teaching Assistant**, (09/2016 – current)
  Drexel University, Philadelphia, PA, USA
  ECEP 480, Solar Power Engineering, Spring 2016-17, Senior Level Class
  ECE 200, Digital Logic Design, Fall & Winter 2016-2017, Sophomore Level Class
  - Created multiple laboratory tutorials and handouts for the digital logic class
  - Instructed laboratory & recitation classes, held office hours
- **Consultant**, (06/2016 – current)
  Shanghai Da Cheng Cold Chain Logistics Co., Ltd., Shanghai, China
  - Providing technological solutions for logistical management, focusing primarily on:
    - Microsoft Excel (CSV) based solutions
    - Enterprise Resource Planning (ERP) functions
    - Efficient team-building
  - Providing management strategies and suggestions for the founder and executive team
- **Assistant Technical Consultant**, (04/2014 – 08/2014)
  Dowa Advanced Materials (Shanghai) Co., Ltd., Shanghai, China
  - Assisted in updating ERP system throughout the corporation:
    - Analyzed and designed user portals and interfaces
    - Performed resource planning independently for various departments
  - Maintained database with the headquarters in Tokyo, Japan
- **Assistant Data Analyst**, (07/2013 – 08/2014)
  Bank of Shanghai, Shanghai, China
  - Managed commercial banking database for regional headquarters
  - Analyzed corporate banking data and provided assistance with Microsoft Excel (CSV) based solutions
  - Assisted to interview, analyze, and document corporate customers with the corporate banking team

HONORS AND AWARDS

- Dean's Fellowship, College of Engineering, Drexel University, 02/2016 - Current
- Dean's Scholarship, College of Engineering, Drexel University, 09/2012 - 06/2016
- Launch It! Scholarship, C. D. Close School of Entrepreneurship, Drexel University, 01/2014
- Winner of Break the Chain Contest, IntegriChain Incorporated, 06/2015
- Champion, Student for the Advancement of Global Entrepreneurship (SAGE) China, 06/2008
  - Member of the Champion Team in SAGE China's Entrepreneurship Competition
  - Acted as an accountant for a multi-year charity project, selling donated goods

RESEARCH

◇ A Cyber-Physical Platform for Smart Power Exchange in a Photovoltaic Assisted Power Network - Master's Thesis Project, 01/2017 - current

- Research in an advanced power exchange network using Programmable System on-Chip (PSoC) and Field Programmable Gate Array (FPGA)
- Design High Level System for AC Power exchange using Digital Signals
- Build mathematical models for analysis conducted on hypothetical user profiles

◇ Autonomous Robot Control Using Vision - Senior Design Project, 09/2015 - 06/2016

- Researched a comprehensive computer program that moves a Sphero robot autonomously out of a maze by recognizing and solving the maze based on camera vision at a bird's eye view
- Designed and implemented cross-platform software solutions in processing visual data using Python based Breadth First Search (BFS) for Autonomous Planning and Scheduling (APS or AI Planning)

◇ Satellite Image Processing - Freshman Design Project, 03/2013 - 06/2013

- Analyzed satellite images for civilian infrastructures affected by Hurricane Sandy through designing and implementing a Matlab-based solution

◇ Scale-Space Representation and Distance Transform Project, 01/2014 - 04/2014

- Implemented different methods for the Matlab-based reconstruction algorithm

LANGUAGE

◇ Mandarin Chinese (Fluent), Wu Chinese (Fluent), English (Fluent)

◇ Japanese (Proficient), German (Beginner), Danish (Beginner)

GRADUATE COURSEWORK

◇ Advanced Geometry (Cohomology), Dynamic Systems

◇ ASIC Design I & II, VLSI Design, Custom IC Design, Advanced Computer Network

◇ High Performance Architecture, Parallel Computer Architecture

◇ Digital Electronics, Advanced Electronics, Digital Systems Design

◇ Engineering Management I & II, Marketing: Identifying Customer Needs

ACTIVITIES

◇ Graduate Student Member, Eta Kappa Nu (HKN) Honor Society
Drexel University, 03/2017 - current

◇ Graduate Student Member, IEEE
Drexel University, 09/2012 - current

◇ Staff, Drexel Recreation Center
Drexel University, 01/2015 - 09/2015

◇ Member, Cherry Hill Ken-yu Kai (UPenn/Princeton Kendo Club)
University of Pennsylvania, 09/2011 - 10/2016

SKILLS

◇ C, C++, C#, Assembly, VHDL, Verilog, Pthread, OpenMP, CUDA, BASH

◇ Python, Java, Perl, Apple Xcode, Matlab, Maple, R studio, Mathematica

◇ Synopsys – Design Compiler, IC Compiler, HSpice
Cadence – RTL Compiler, Encounter, Virtuoso Suite

◇ Mono Xamarin, LaTeX, Xilinx Vivado, Cypress PSoC IDE, OrCAD Pspice Designer

◇ Microsoft Office Suite – Excel, Outlook, PowerPoint, Publisher, Word

REFERENCES

◇ **Dr. Baris Taskin**
Professor, Department of Electrical and Computer Engineering
Drexel University, Philadelphia, PA
E-mail: taskin@coe.drexel.edu

◇ **Dr. Prawat Nagvajara**
Associate Professor, Department of Electrical and Computer Engineering
Drexel University, Philadelphia, PA
E-mail: nagvajara@coe.drexel.edu